

TABLE 2.11
NON-BELTWAY PRELIMINARY COST ESTIMATES
1996 DOLLARS

ITEM	OPTION SET #1			OPTION SET #2			OPTION SET #3		
	QUANTITY (ENGLISH)	UNIT PRICE (ENGLISH)	AMOUNT	QUANTITY (ENGLISH)	UNIT PRICE (ENGLISH)	AMOUNT	QUANTITY (ENGLISH)	UNIT PRICE (ENGLISH)	AMOUNT
WILDERNESS PARK GRADE SEPARATION									
structure	15 385 sq m* (165,600 sq ft)	\$970 (\$90)	\$14,904,000	18 210 sq m** (196,000 sq ft)	\$970 (\$90)	\$17,640,000	0 sq m*** (0 sq ft)	\$970 (\$90)	\$0
embankment	123 900 cu m (162,000 cu yd)	\$2.60 (\$2)	\$324,000	185 800 cu m (243,000 cu yd)	\$2.60 (\$2)	\$486,000	0 cu m (0 cu yd)	\$2.60 (\$2)	\$0
mitigation			\$1,000,000			\$1,000,000			\$0
total			\$16,228,000			\$19,126,000			\$0
RAILROAD CROSSING	2 ea	\$2,214,000	\$4,428,000	1 ea	\$3,051,000	\$3,051,000	5 ea	\$2,214,000	\$11,070,000
structure	1 950 sq m (21,000 sq ft)	\$970 (\$90)	\$1,890,000	2 648 sq m (28,500 sq ft)	\$970 (\$90)	\$2,565,000	1 950 sq m (21,000 sq ft)	\$970 (\$90)	\$1,890,000
embankment	123 900 cu m (162,000 cu yd)	\$2.60 (\$2)	\$324,000	185 800 cu m (243,000 cu yd)	\$2.60 (\$2)	\$486,000	123 900 cu m (162,000 cu yd)	\$2.60 (\$2)	\$324,000
total each			\$2,214,000			\$3,051,000			\$2,214,000
STREAM CROSSING	2 ea	\$756,000	\$1,512,000	4 ea	\$1,062,000	\$4,248,000	4 ea	\$756,000	\$3,024,000
structure	780 sq m (8,400 sq ft)	\$970 (\$90)	\$756,000	1 096 sq m (11,800 sq ft)	\$970 (\$90)	\$1,062,000	780 sq m (8,400 sq ft)	\$970 (\$90)	\$756,000
embankment	0 cu m (0 cu yd)	\$2.60 (\$2)	\$0	0 cu m (0 cu yd)	\$2.60 (\$2)	\$0	0 cu m (0 cu yd)	\$2.60 (\$2)	\$0
total each			\$756,000			\$1,062,000			\$756,000
INTERSECTIONS, AT GRADE (major)	19 ea	\$500,000	\$9,500,000	24 ea	\$500,000	\$12,000,000	23 ea	\$500,000	\$11,500,000
PAVEMENT	529 850 sq m (633,700 sq yd)	\$42 (\$35)	\$22,179,500	889 379 sq m (1,063,688 sq yd)	\$42 (\$35)	\$37,229,080	693 820 sq m (829,800 sq yd)	\$42 (\$35)	\$29,043,000
CONNECTING LINK PAVEMENT	131 901 sq m (157,752 sq yd)	\$30 (\$25)	\$3,943,800	0 sq m (0 sq yd)	\$30 (\$25)	\$0	125 038 sq m (149,544 sq yd)	\$30 (\$25)	\$3,738,600
PAVEMENT REMOVAL	315 200 sq m (377,000 sq yd)	\$6 (\$5)	\$1,885,000	431 860 sq m (516,500 sq yd)	\$6 (\$5)	\$2,582,500	430 190 sq m (514,500 sq yd)	\$6 (\$5)	\$2,572,500
EMBANKMENT	337 550 cu m (441,500 cu yd)	\$2.60 (\$2)	\$883,000	643 450 cu m (841,600 cu yd)	\$2.60 (\$2)	\$1,683,200	439 240 cu m (574,500 cu yd)	\$2.60 (\$2)	\$1,149,000
CULVERTS (major extensions)	3 ea	\$100,000	\$300,000	1 ea	\$100,000	\$100,000	4 ea	\$100,000	\$400,000
SUBTOTAL			\$60,859,300			\$80,019,780			\$62,497,100
HOUSES	1 ea	\$200,000	\$200,000	45 ea	\$200,000	\$9,000,000	8 ea	\$200,000	\$1,600,000
RIGHT-OF-WAY	45 ha (110 ac)	\$50,000 (\$20,000)	\$2,200,000	51 ha (127 ac)	\$50,000 (\$20,000)	\$2,540,000	54 ha (133 ac)	\$50,000 (\$20,000)	\$2,660,000
ENGINEERING DESIGN	6%		\$3,651,558	6%		\$4,801,187	6%		\$3,749,826
CONSTRUCTION ADMINISTRATION	8%		\$4,868,744	8%		\$6,401,582	8%		\$4,999,768
CONTINGENCIES	25%		\$15,214,825	25%		\$20,004,945	25%		\$15,624,275
TOTAL			\$86,994,427			\$122,767,494			\$91,130,969

* Includes one railroad crossing and one stream crossing.

** Includes two railroad crossings and one stream crossing.

*** 14th already at grade; no separation over Wilderness Park needed.